

NVDA/P000600

IN THE CLAIMS:

Please cancel claims 2-4, 11-20, and amend the claims as follows:

1. (Amended) A method of determining sub-pixel sample positions for a pixel position to reducing aliasing, comprising:

reading a programmed first sub-pixel offset value;

reading a programmed second sub-pixel offset value; and

computing a jittered sub-pixel sample position using the first sub-pixel offset value, the second sub-pixel offset value, and the pixel position. wherein the reading of the programmed first sub-pixel offset value and the second sub-pixel offset value is partially based on at least a portion of the pixel position.

2-4 Cancelled

5. (Amended) The method of claim 1, further comprising:

computing a depth value of a fragment for each jittered sub-pixel sample position.

6. (Amended) The method of claim 1, further comprising:

determining sub-pixel sample coverage for a fragment associated with the pixel position.

7. (Amended) The method of claim 1, further comprising:

computing a color value of a fragment.

8. (Previously presented) The method of claim 1, wherein the color value of a fragment is computed at a sub-pixel position within a pixel boundary.

9. (Previously presented) The method of claim 1, wherein the color value of a fragment is computed at a pixel position within a pixel boundary.

NVDA/P000600

10. (Amended) The method of claim 1, further comprising:
 computing a color value of a fragment for each jittered sub-pixel sample position.

11-20 Cancelled.

Please add the following claims:

21. (New) A method as claimed in claim 1, wherein the number of pixel offset values stored is dependent on the resolution of the image to be displayed.
22. (New) A method of determining sub-pixel sample positions for a pixel position on a backward compatible basis to reduce aliasing, the method comprising:
 determining pixel positions for a plurality of pixels in an image;
 determining a plurality of sub-pixel sample positions for each of the pixels;
 storing a number of sub-pixel offset values, selecting a sub-pixel offset value based on the position of the pixel related to the sub-pixel sample; and
 adding the selected sub-pixel offset value to one of the plurality of sub-pixel sample positions to determine a sub-pixel sample pattern on a backward compatible basis based on the pixel position being sampled.
23. (New) A method as claimed in claim 22, wherein the number of pixel offset values stored is dependent on the resolution of the image to be displayed.
24. (New) A method as claimed in claim 23, wherein the offset value also applied to the pixel position.
25. (New) A method as claimed in claim 23, wherein the offset value is applied as both a horizontal and vertical offset to the X,Y pixel position.

NVDA/P000600

26. (New) A method as claimed in claim 22, wherein the offset values are stored in a lookup table having a length dependent on the desired period between use of the offset value.
27. (New) A method as claimed in claim 26, wherein the stored offset values are accessed using selected bits of the pixel position coordinates.
28. (New) A method as claimed in claim 27, wherein the selected bits are two or more low bits of the pixel position coordinate.
29. (New) A method anti-aliasing the edge of a primitive consistently between frames where the viewpoint has not changed comprising:
- determining pixel positions for a plurality of pixels in an image;
 - determining a plurality of sub-pixel sample positions for each of the pixels;
 - storing a number of sub-pixel offset values;
 - selecting a sub-pixel offset value from the stored values based on the position of the pixel related to the sub-pixel sample;
 - and adding the selected sub-pixel offset value to one of the plurality of sub-pixel sample positions to determine a sub-pixel sample pattern utilizing offset values selected non-sequentially to determine sub-pixel sample positions based on the coordinate position of each pixel along the edge of the primitive.
30. (New) A method as claimed in claim 29, wherein the offset values are stored in a lookup table having a length dependent on the desired period between use of the offset value.
31. (New) A method as claimed in claim 29, wherein the number of pixel offset values stored is dependent on the resolution of the image to be displayed.
32. (New) A method as claimed in claim 31, wherein the stored offset values are accessed using selected bits of the pixel position coordinates.

NVDA/P000600

33. (New) A method as claimed in claim 32, wherein the selected bits are two or more low bits of the pixel position coordinate.